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Exhibit P-40, Budget Line Item Justification: FY 2018 Air Force										Date: May 2017		
Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs							P-1 Line Item Number / Title: 833040 / Theater Air Control Sys Improvements					
ID Code (A=Service Ready, B=Not Service Ready): B				Program Elements for Code B Items: 0207412F				Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A												
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	22.710	1.163	23.233	4.970	28.203	20.131	2.901	2.951	7.216	-	85.275
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	22.710	1.163	23.233	4.970	28.203	20.131	2.901	2.951	7.216	-	85.275
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	22.710	1.163	23.233	4.970	28.203	20.131	2.901	2.951	7.216	-	85.275
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>												
Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
<p>Description: PE 0207412F CONTROL AND REPORTING CENTER (CRC)</p> <p>The Control and Reporting Center (CRC) is a mobile, ground-based theater air control system (TACS) surveillance and battle management command and control (BMC2) element. It consists of facilities, equipment, and people. It is a customizable, modular, transportable, and persistent weapon system employed at the tactical level to support air and surface operations. The CRC is a family of systems which includes: AN/TYQ-23(V)1 Operations Module (OM) (to be replaced by the AN/TYQ-23v5), a low density/high demand (LD/HD), rapidly deployable, ground-based C2 asset that features an automated, computer-based information system to provide operators with a real-time battle space picture necessary to plan, direct, and control tactical air operations and airspace management tasks; AN/TSC-147 Joint Tactical Information Distribution System (JTIDS) Module (JM) (to be replaced by the Link 16 Upgrade using the Multifunctional Information Distribution System Joint Tactical Radio System (MIDS JTRS)); AN/TRC-213/214 Remote Radio Secure Voice System (RRSVS); and the AN/TPS-75 Radar, CRC's organic radar, (to be replaced by the Three-Dimensional Expeditionary Long Range Radar (3DELRR) (PE 0207455)). Funding may be used to address Diminishing Manufacturing Sources and Material Shortages (DMSMS) issues.</p> <p>In order to meet warfighter requirements, incremental updates are required. Phase 1 capabilities include, but are not limited to: JM Link 16 Upgrade kits and DMSMS updates (JM Link 16 Upgrade will provide for crypto modernization and will meet FAA mandated frequency re-mapping requirements, as well as stand up organic software and hardware support); Secret Internet Protocol Router Network (SIPRnet) connectivity in order to fulfill mission requirements; and a Cross Domain Solution (CDS) to update cyber security. Fielding and DMSMS updates and interim contract support will continue through FY21.</p> <p>Funding for this exhibit contained in PE 0207412F.</p>												
Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022		
AF	Quantity	-	-	-	-	-	-	-	-	-	-	
	Total Obligation Authority	8.899	1.163	13.685	4.970	18.655	8.575	3.801	3.261	7.216		
AFNG	Quantity	-	-	-	-	-	-	-	-	-	-	
	Total Obligation Authority	13.811	0.000	9.548	-	9.548	9.856	1.200	1.400	-		
Total:	Quantity	-	-	-	-	-	-	-	-	-	-	

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Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs					P-1 Line Item Number / Title: 833040 / Theater Air Control Sys Improvements					
ID Code (A=Service Ready, B=Not Service Ready): B			Program Elements for Code B Items: 0207412F			Other Related Program Elements: N/A				
Line Item MDAP/MAIS Code: N/A										
Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
Secondary Distribution	Total Obligation Authority	22.710	1.163	23.233	4.970	28.203	18.431	5.001	4.661	7.216

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Appropriation / Budget Activity / Budget Sub Activity: 3080F: Other Procurement, Air Force / BA 03: Electronics and Telecommunications Equip / BSA 3: Electronics Programs						P-1 Line Item Number / Title: 833040 / Theater Air Control Sys Improvements			
ID Code (A=Service Ready, B=Not Service Ready): B				Program Elements for Code B Items: 0207412F			Other Related Program Elements: N/A		
Line Item MDAP/MAIS Code: N/A									

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	TACSI Mods				- / 0.000	- / 22.710	- / 1.163	- / 4.450	- / 0.000	- / 4.450
P-3a	1 / CRC Phase 1 (Other)				- / -	- / 0.000	- / 0.000	- / 18.783	- / 4.970	- / 23.753
P-40	Total Gross/Weapon System Cost				- / -	- / 22.710	- / 1.163	- / 23.233	- / 4.970	- / 28.203

Exhibits Schedule					FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	TACSI Mods				- / -	- / -	- / -	- / -	- / -	- / -
P-3a	1 / CRC Phase 1 (Other)				- / -	- / -	- / -	- / -	- / -	- / -
P-40	Total Gross/Weapon System Cost				- / 20.131	- / 2.901	- / 2.951	- / 7.216	- / -	- / 85.275

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

Justification:
FY18 funding supports:

a. Operations Module (OM) MOD & PHASE 1 capabilities include, but are not limited to, the following: OM Mod installations, Interim Contractor Support (ICS), Diminishing Manufacturing Sources and Material Shortages (DMSMS) support, Cross Domain Solution (CDS), Joint Tactical Information Distribution System Module (JM) Link 16 Upgrade Production Kits, and Secret Internet Protocol Router Network (SIPRnet).

b. SUPPORT: (OM Mod & Phase1) Includes efforts, but are limited to, Software Integrated Laboratory (SIL) activation, and Program Management Administration (PMA) activities in support of the Control and Reporting Center (CRC).

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Exhibit P-40a, Budget Item Justification For Aggregated Modification Items: FY 2018 Air Force															Date: May 2017					
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3						P-1 Line Item Number / Title: 833040 / Theater Air Control Sys Improvements									Aggregated Modification Items Title: TACSI Mods					
Item Number / Title	ID CD	MDAP/ MAIS Code	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
			Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
TYQ23A / AN/TYQ23A OM MOD			-	-	-	-	-	22.710	-	-	1.163	-	-	4.450	-	-	-	-	-	4.450
Secondary Distribution																				
AF				-	-		-	8.899		-	1.163		-	4.450		-	-		-	4.450
AFNG				-	-		-	13.811		-	0.000		-	0.000		-	-		-	0.000
Total			-	-	0.000	-	-	22.710	-	-	1.163	-	-	4.450	-	-	0.000	-	-	4.450
Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.																				

Modification Information:

Item Number / Title	Models of Systems Affected	Modification Type
TYQ23A / AN/TYQ23A OM MOD	OMMOD	Other

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Exhibit P-3a, Individual Modification: FY 2018 Air Force							Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3				P-1 Line Item Number / Title: 833040 / Theater Air Control Sys Improvements				Modification Number / Title: 1 / CRC Phase 1			

ID Code (A=Service Ready, B=Not Service Ready) :						MDAP/MAIS Code:						
Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.000	0.000	18.783	4.970	23.753	-	-	-	-	-	-
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.000	0.000	18.783	4.970	23.753	-	-	-	-	-	-
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	0.000	0.000	18.783	4.970	23.753	-	-	-	-	-	-
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

PE 0207412F CONTROL AND REPORTING CENTER (CRC)
CRC Phase 1

In order to meet warfighter requirements, incremental updates are required. Phase 1 capabilities include, but are not limited to: JM Link 16 Upgrade kits and DMSMS updates (JM Link 16 Upgrade will provide for crypto modernization and will meet FAA mandated frequency re-mapping requirements, as well as stand up organic software and hardware support); Secret Internet Protocol Router Network (SIPRnet) connectivity in order to fulfill mission requirements; and a Cross Domain Solution (CDS) to update cyber security. Fielding and DMSMS updates and interim contract support will continue through FY22.

Milestone/Development Status

N/A

Secondary Distribution		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022
AF	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	9.235	4.970	14.205	-	-	-	-
AFNG	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	-	-	9.548	-	9.548	-	-	-	-
Total: Secondary Distribution	Quantity	-	-	-	-	-	-	-	-	-
	Total Obligation Authority	0.000	0.000	18.783	4.970	23.753	-	-	-	-

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Exhibit P-3a, Individual Modification: FY 2018 Air Force										Date: May 2017			
Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3				P-1 Line Item Number / Title: 833040 / Theater Air Control Sys Improvements						Modification Number / Title: 1 / CRC Phase 1			
ID Code (A=Service Ready, B=Not Service Ready) :								MDAP/MAIS Code:					
Models of Systems Affected: CRCPhase1				Modification Type: Other				Related RDT&E PEs:					
Financial Plan	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> CRC Phase 1													
B Kits													
Recurring													
CRC Phase 1:EQUIPMENT Group B (Active)	- / -	- / -	- / -	9 / 7.336	- / -	9 / 7.336	- / -	- / -	- / -	- / -	- / -	- / -	
CRC Phase 1:EQUIPMENT Group B (Guard)	- / -	- / -	- / -	12 / 9.548	- / -	12 / 9.548	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 16.884	- / -	- / 16.884	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: CRC Phase 1</i>	- / -	- / -	- / -	- / 16.884	- / -	- / 16.884	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 16.884	- / -	- / 16.884	- / -	- / -	- / -	- / -	- / -	- / -	
Support (All Modification Items)													
Type 1 Training	- / -	- / -	- / -	- / 1.899	- / -	- / 1.899	- / -	- / -	- / -	- / -	- / -	- / -	
OCO INSTALLATIONS	- / -	- / -	- / -	- / -	- / 4.970	- / 4.970	- / -	- / -	- / -	- / -	- / -	- / -	
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 1.899	- / 4.970	- / 6.869	- / -	- / -	- / -	- / -	- / -	- / -	
Installation													
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	
Total													
Total Cost (Procurement + Support + Installation)	-	0.000	0.000	18.783	4.970	23.753	-	-	-	-	-	-	

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Appropriation / Budget Activity / Budget Sub Activity: 3080F / 03 / 3											P-1 Line Item Number / Title: 833040 / Theater Air Control Sys Improvements											Modification Number / Title: 1 / CRC Phase 1									
ID Code (A=Service Ready, B=Not Service Ready) :																	MDAP/MAIS Code:														
Modification Item 1 of 1: CRC Phase 1																															
Manufacturer Information																															
Manufacturer Name: Solypsis														Manufacturer Location: Baltimore, MD																	
Administrative Leadtime <i>(in Months)</i> : 3														Production Leadtime <i>(in Months)</i> : 21																	
Dates		FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022					
Contract Dates										Jan 2018																					
Delivery Dates										Oct 2019																					
Installation Information																															
Method of Implementation: Contract Field Team																															
Installation Schedule																															
	PYS	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TC	Tot
In	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	5	-	5	6	6	-	-	-	-	-	0	38
Out	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	5	-	5	6	6	-	-	-	-	-	0	38